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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/516,947	10/07/2005	Noriaki Fujii	107348-00449	4969	
4372 ARENT FOX	7590 01/11/2008 LLP			EXAMINER	
1050 CONNECTICUT AVENUE, N.W.			CHANG, CHING		
SUITE 400 WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER	
		·	3748		
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	·		NOTIFICATION DATE	DELIVERY MODE	
			01/11/2008	ELECTRONIC	

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

DCIPDocket@arentfox.com IPMatters@arentfox.com Patent\_Mail@arentfox.com

	Application No.	Applicant(s)			
•	10/516,947	FUJII ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ching Chang	3748			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period was a reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  36(a). In no event, however, may a reply be to the second will expire SIX (6) MONTHS from a cause the application to become ABANDON	M. imely filed mailing date of this communication. IED (35 U.S.C. § 133).			
Status					
1)	action is non-final.  nce except for formal matters, p				
Disposition of Claims					
4) Claim(s) 1-17 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw  5) Claim(s) is/are allowed.  6) Claim(s) 1-3,10 and 11 is/are rejected.  7) Claim(s) 4-9 and 12-17 is/are objected to.  8) Claim(s) are subject to restriction and/o  Application Papers  9) The specification is objected to by the Examine	wn from consideration.  r election requirement.				
10) The drawing(s) filed on is/are: a) accomposition accomposition accomposition accomposition and accomposition accomposi	drawing(s) be held in abeyance. Stion is required if the drawing(s) is o	ee 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 5/8/07.	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:				

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### **DETAILED ACTION**

This Office Action is in response to the amendment field on 11/01/07.

### Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3, and 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takenaka (JP '523) in view of Hiereth (US Patent 6,009,842).

Takenana discloses a valve-operating system (See Figs. 1-6) for an internal combustion engine, comprising a rocker arm (4) having a valve abutment at one end thereof abutting against an engine valve (v) and a cam abutment at the other end contacting with a valve-operating cam (7), and a pair of link arms (9, 10) each of which is supported at one end thereof on an engine body (E) for swinging movement about an axis parallel to a rotational axis for said valve-operating cam and connected at the other end directly to the other end of said rocker arm for relative turning movement about an axis parallel to said rotational axis, said one end of at least any one of said link arms being swingably supported on said engine body for continuous movement within a plane perpendicular to the rotational axis for said valve-operating cam; wherein said link arms are connected at the other ends in a row and relatively turnably to the other end of said rocker arm provided at one end thereof with said valve abutment; wherein one of said link arms closer to said valve-operating cam is swingably supported at one end thereof

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on the engine body in a fixed position, and one of said link arms farther from said valveoperating cam is swingably supported at one end thereof movable on the engine body; wherein one ends of said link arms are disposed on a side opposite from said engine valve with respect to the other ends of said link arms.

Takenaka discloses the invention as recited above, however, fails to disclose said rocker arm being formed to be gradually thicker from the valve abutment at the one end toward the cam abutment at the other end.

The patent to Hiereth on the other hand, teaches that it is conventional in the engine art, to utilize a (10) rocker arm being formed to be gradually thicker from the valve abutment at the one end toward the cam abutment at the other end (See Fig. 7).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have utilized the gradually thicker rocker arm as taught by Hiereth in the Takenaka device, since the use thereof would provide an improved engine train system with a more rigid rocker arm.

## Allowable Subject Matter

3. Claims 4-9, and 12-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Response to Arguments

4. Applicant's arguments with respect to claims 1-3, and 10-11 have been considered but are moot in view of the new ground(s) of rejection.

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#### Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ching Chang whose telephone number is (571)272-4857. The examiner can normally be reached on M-Th, 7:00 AM -5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Denion can be reached on (571)272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CHING CHANG
PRIMARY EXAMINER
TECHNOLOGY CENTER 3700